



US005214688A

United States Patent [19]

[11] Patent Number: 5,214,688

Szlam et al.

[45] Date of Patent: May 25, 1993

Best Available Copy

[54] METHOD AND APPARATUS FOR
DYNAMIC AND INTERDEPENDENT
PROCESSING OF INBOUND CALLS AND
OUTBOUND CALLS

[75] Inventors: Aleksander Szlam, Norcross; James
W. Crooks, Jr.; Dean H. Harris, both
of Marietta, all of Ga.

[73] Assignee: Inventions, Inc., Norcross, Ga.

[21] Appl. No.: 533,489

[22] Filed: Jun. 5, 1990

[51] Int. Cl. H04M 1/64

[52] U.S. Cl. 379/67; 379/88;
379/112; 379/137

[58] Field of Search 379/67, 69, 84, 88,
379/112, 113, 212, 213, 214, 218, 265, 266, 302,
303, 137, 139, 89

[56] References Cited

U.S. PATENT DOCUMENTS

4,199,665	4/1980	Emrick et al.	379/137
4,694,433	9/1987	Cheung	379/265
4,757,267	7/1988	Riskin	379/83
4,792,968	12/1988	Katz	379/67
4,797,911	1/1989	Szlam et al.	379/216
4,829,563	5/1989	Crockett et al.	379/309
4,878,240	10/1989	Lin et al.	379/67
4,881,261	11/1989	Oliphant et al.	379/265
4,894,857	1/1990	Szlam et al.	379/216
4,939,771	7/1990	Brown et al.	379/214
4,939,773	7/1990	Katz	379/204
5,062,103	10/1991	Davidson et al.	379/265

Primary Examiner—Jin F. Ng

Assistant Examiner—Huyen D. Le

Attorney, Agent, or Firm—Jones & Askew

[57] ABSTRACT

A method for optimizing the pacing and processing of inbound calls and outbound calls. Statistics are generated concerning inbound calls and outbound calls, and concerning the performance of each agent for inbound calls and outbound calls. Separate statistics concerning inbound calls and outbound calls allow a more accurate prediction of call pacing and handling requirements and of the availability of an agent so as to maximize the productivity of each agent and control the on-hold time of inbound and outbound calls. Each trunk line is designated for inbound calls or outbound calls and the status of each trunk is monitored. If all of the trunks allocated to inbound service are in use then some of the trunks designated for outbound service are redesignated for inbound service. If more than a predetermined number of trunks designated for inbound service are not in use then some of these trunks will be redesignated for outbound service. Therefore, the rate of answering of inbound calls and the rate of placement of outbound calls, and the allocation of trunks between inbound calls and outbound calls are driven by the frequency, duration and number of calls and user-selectable options.

0943744-11099